BRUHAT BANGLORE MAHANAGARA PALIKE

DASARAHALLI-ZONE

T.DASARAHALLI-SUB-DIVISION.

Name Of Work: Modified Estimate for Construction of RO Plant in Ward No. 14

Est.Cost. 10.84 Lakhs

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BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

e of Work: Modified Estimate for Construction of RO Plant in Ward No. 14

014-21-000007		P-3075				Est Cost Rs.	12.50 Lakhs	
o Description of item	Unit	No	L	B	D	Qty	Rate	Amount
ROOM FOR RO PLANT								
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
Long wall	Cum	2	5.00	0.90	0.90	8.10		
Short wall		2	2.60	0.90	0.90	4.21		
Sump		1	2.80	1.80	2.00	10.08		
For pipe line		1	200.00	0.60	0.90	108.00		
					Total	130.39		
Schedule B Quantity						22.30		
Quantity up to 125 %						27.88	326.96	9114.01
Quantity Above 125 %						102.52	326.96	33518.96
KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:3;6 with OPC cement @ 220 kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. Page No.13, Item No. 4.2 of PWD SR 2018-19								
Long wall		2	5.00	0.90	0.15	1.35		
Short wall		2	2.60	0.90	0.15	0.70		
Sump		1	2.80	1.80	0.15	0.76		
For Floor		1	3.88	3.20	0.15	1.86		
Deduct Sump portion		-1	2.80	1.80	0.15	-0.76		
Flagging concrete		2	3.50	0.75	0.15	0.79		
		1	5.60	0.75	0.15	0.63		
		1	200.00	0.60	0.20	24.00		
						29.33		
Schedule B Quantity						**4.74**		
Quantity up to 125 %						**5.93**	**5769.83**	**34186.24**
Quantity Above 125 %						**23.41**	**5769.83**	**135053.83**
3 KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Page No. 25 / Item No. 5.6, PWD SR 2018-19								
1st Layer Long Wall		2	4.80	0.60	0.45	2.59		
Short Wall		2	3.00	0.60	0.45	1.62		
2 nd Layer Long Wall		2	4.80	0.45	0.30	1.30		
Short Wall		2	3.00	0.45	0.30	0.81		
						6.32		
Schedule B Quantity						**16.88**		
Quantity up to 125 %						**6.32**	**5046.22**	**31892.11**
Quantity Above 125 %						**0.00**		
4 Providing ruled pointing to coursed masonary with cement mortar 1;3 20 mm deep after racking the joints to depth of 20 mm nicely lining including cost of materials,labour,curing complete as per specification (P-15,I-15.3 PWD SR 2018-19)								
Long wall	**Sqm**	2	4.18		0.30	**2.51**		
Short wall		1	3.50		0.30	**1.05**		
						3.56		
Schedule B Quantity						**15.50**		
Quantity up to 125 %						**3.56**	**159.46**	**567.68**
Quantity Above 125 %						**0**		

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o	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, Page No. 7 / Item No. 2.10 / PWD SR 2018-19								
				Qty Vide Item No. 1			130.39		
	Schedule B Quantity						22.30		
	Quantity up to 125 %						27.88	219.79	6126.65
	Quantity Above 125 %						102.52	219.79	22532.21
	Providing and laying in position reinforced cement concrete of design mix M 25 with OPC Cement @ 340 kgs with 20 mm and down size granite coarse aggregates @0.70 cum and fine aggregates @0.47 cum with super plasticiser @3 ltrs conforming to IS 9103-1999 Reaffirmed 2008 at machine mixed concrete of ready mixed concrete laid inlayers not exceeding 15 cms thick and well compacted vibrating, curing, forfootings pedestals retaining walls return walls including attached pillasters column spillars posts strusts buttresses bed blocks anchor blocks and plinths including cost of materials labour HOM of machinery etc complete as per specification with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Page No. 14, Item No. 4.12 PWD SR 2018-19								
	Plinth Beam		2	4.18	0.30	0.30	0.75		
			2	3.20	0.30	0.30	0.58		
	Lintels		2	4.18	0.15	0.15	0.19		
			2	3.20	0.15	0.15	0.14		
	Roof Beam		2	4.18	0.30	0.30	0.75		
			2	3.20	0.30	0.30	0.58		
	Roof Slab		1	4.70	3.50	0.15	2.47		
	Sump Roof Slab		1	1.80	2.80	0.20	1.01		
							6.46	0.00	0.00
	Schedule B Quantity						1.85		
	Quantity up to 125 %						2.31	6749.59	15608.43
	Quantity Above 125 %						4.61	6749.59	31145.31
7	Providing and laying in position plain cement concrete of mix 1;2;4 with opc cement @240 kgs with 20 mm and down size graded granite metal course aggregates @0.69 cum and fine aggregates @0.459 cum machine mixed concrete laid in layers not exceeding 15 cms thick well compacted for coping including cost of materials,labour HOM of machinery etc complete as per specifications (P-13,I-4.6 OF PWD SR 2018-19)								
	For Coping Steps	Cum	2	3.50	0.30	0.10	0.21		
	For Sump Bottom		1	2.80	1.80	0.20	1.01		
	For WPC		1	3.88	3.20	0.10	1.24		
							2.46		
	Schedule B Quantity						1.04		
	Quantity up to 125 %						1.22	6027.34	7353.35
	Quantity Above 125 %						0		
8	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2018-19**								
	@ 95Kg / Cum		95.00	6.46			0.61		
							0.61		
	Schedule B Quantity						0.18		
	Quantity up to 125 %						0.23	77601.32	17460.30
	Quantity Above 125 %						0.39	77601.32	30196.07
9	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2018-19**								
	For Plinth Beam		4	4.18		0.30	5.02		
			4	3.20		0.30	3.84		
	Lintels		4	4.18		0.15	2.51		
	Lintels		4	3.20		0.15	1.92		
	Roof Beam		4	4.70		0.30	5.64		
			4	3.20		0.30	3.84		
	For Roof		1	4.70	3.15		14.81		
	Sides		2	4.70		0.15	1.41		
			2	3.20		0.15	0.96		

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lo	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Sump Roof		1	2.80	1.80		5.04		
	Sides		2	2.80		0.15	0.84		
			2	1.80		0.15	0.54		
							44.98		
	Schedule B Quantity						12.33		
	Quantity up to 125 %						15.41	319.30	4921.21
	Quantity Above 125 %						29.57	319.30	9440.58
)	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification. (Page No. 40 Item No. 7.29 of CSR 2018-19)								
	Present Quantity						0.00	121.38	0.00
	Schedule B Quantity						780.18		
	Quantity up to 125 %						0.00		
	Quantity Above 125 %						0.00		
1	Providing and fixing self supported,Ribbed,high quality,high grade (D350 MPA Yst Min), pre painted Galvalume steel Roof sheet coated with bare Galvalume coating AZ 150 @ 150 gms/Smtr 55 % AL, 45 %Zn) by hot dip process of total coated thickness as specified for different spans with tollerence of +/- 0.02 mm ,according to technical specifications conforming to A 792 with NCCA 11-1, or ECCA T4 Pencil hard ness HB NCCA Standard T- bend test The Roof should be fastened to the gutter Beam on the external sloping side at the intervel of 51 mm centre to centre to a depth of 65 mm with GI Anchor etc complete as per specifications P-311, I-38.46.7,OF pwd sr 2018-19								
	Present Quantity						0.00	2389.30	0.00
	Schedule B Quantity						86.22		
	Quantity up to 125 %						0.00		
	Quantity Above 125 %						0.00		
12	Providing and fixing pull and push type rolling shutters of approved mke out of 18 guage ,75 mm wide cold rolled steel laths of convex corrugation with side guides and bottom rail with inter locking arrangements for steel laths by means of alternate clips suspention shaft with high tension coil type springs two numbers mounted on a specially designed pipe shaft with bracket plates guide channels ball bearing arrangements for inside &out side locking with push &pull operations complete including pulling hooks 4 Nos handles with all fittings and acessaries painted with a coat of red led paint without top cover cost of materials labour HOM of machinary complete as per specifications p-33,I-7.5 OF KPWD SR 2018-19								
		Sqm	1	1.80	3.00		5.40		
	Schedule B Quantity						6.25		
	Quantity up to 125 %						5.40	2850.75	15394.05
	Quantity Above 125 %						0.00		
13	Providing and fixing top covers made out of 20 guage MS Sheet over pull and push rolling shutters bent to shape including cost of red led primer coat of painting materials labour HOM of machinary etc complete as per specifications P-34,I-7.6 KPWD SR 2018-19								
		Mtr	1	1.80			1.80		
	Schedule B Quantity						2.50		
	Quantity up to 125 %						1.80	527.07	948.73
	Quantity Above 125 %						0.00		
14	KSRB15-3-13 : Providing 20 mm thick cement plaster in single coat with cement mortar 1:3, to **stone masonry**including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116 , Item No. 15.18 of PWD SR 2018-19**								
	Out Side		2	4.18	3.50		29.26		
			2	3.50	3.50		24.50		
			-1	1.80	3.00		-5.40		
	Deduct RSD		-1	1.00	1.20		-1.20		
	Window		2	2.80	2.00		11.20		
	For sump in side		2	1.80	2.00		7.20		
			1	3.88	3.20		12.42		
	Bottom						77.98		
							21.12		
	Schedule B Quantity						26.40	320.20	8453.28
	Quantity up to 125 %								

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	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Quantity Above 125 %						51.58	320.20	16514.64
	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm (P.No.107, I.No.14.47.1 of PWD SR 2018-19)								
	Present Quantity						0.00	2636.27	0.00
	Schedule B Quantity						32.48		
	Quantity up to 125 %						0.00		
	Quantity Above 125 %						0.00		
	KSRB 7.10 : Providing and fixing in position aluminium Partition walls as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns.. (Page No. 31, item No. 7.10.1)								
	Present Quantity	Sqm	1	3.20		2.50	8.00		
	Deduct Door		-1	0.90		2.10	-1.89		
							6.11		
	Schedule B Quantity						5.67		
	Quantity up to 125 %						6.11	3678.53	22475.82
	Quantity Above 125 %						0.00		
7	KSRB 7.10 : Providing and fixing in position aluminium Doors as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns.. (Page No. 31, item No. 7.10.1)								
	Present Quantity	Sqm	1	0.90		2.10	1.89		
	Schedule B Quantity						1.89		
	Quantity up to 125 %						1.89	6704.25	12671.03
	Quantity Above 125 %						0.00		
18	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (Sl. No. 15.73, Page No. 121), (SR 2018-19),								
	RSD	Sqm	2.25	1.80		2.80	11.34		
	MS Grill work		2.25	1.00		1.20	2.70		
							14.04		
	Schedule B Quantity						39.70		
	Quantity up to 125 %						14.04	44.83	629.41
	Quantity Above 125 %						0.00		
19	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications (Sl.No 15.74, Page No.121), (SR 2016-2017)								
	RSD	Sqm	2.25	1.80		2.80	11.34		
	MS Grill work		2.25	1.00		1.20	2.70		
							14.04		
	Schedule B Quantity						39.70		
	Quantity up to 125 %						14.04	103.88	1458.48

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lo	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Quantity Above 125 %						0.00		
	10000 LPD R.O. Plant								
	Water purification plants supplying ,installation and commissioning of Automatic Water Purification Plant (RO+UF) with all accessaries piping product water tank on single phase power supply on turnkey /EPC Basic as per the enclosed detailed technical specifications including cost of materials loading and un loading etc complete as per specification								
	Schedule B Quantity	Nos	1				1	405000.00	**405000.00**
	Quantity up to 125 %						1		
	Quantity Above 125 %						1		
							0		
	Additional price for installation of Ultra violet System								
	Schedule B Quantity	Nos	1				1	10000.00	**10000.00**
	Quantity up to 125 %						1		
	Quantity Above 125 %						1		
							0		
2	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity) Specification No.KBS 13.22 Page No. 94, Item No. 13.78, PWD SR 2018-19								
	Present Quantity								
	Schedule B Quantity	Nos					1		
	Quantity up to 125 %						1		
	Quantity Above 125 %						1	7466.42	**7466.42**
							0		
3	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes (P.No.96, I.No. 13.86.3 of PWD SR 2018-19)								
	Schedule B Quantity	Mtr	1	30.00			30.00	256.97	**7709.10**
	Quantity up to 125 %						30.00		
	Quantity Above 125 %						30.00		
							0.00		
4	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes (P.No.96, I.No. 13.86.3 of PWD SR 2018-19)								
	Schedule B Quantity	Mtr	1	30.00			30.00	320.40	**9612.00**
	Quantity up to 125 %						30.00		
	Quantity Above 125 %						30.00		
25	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes (P.No.96, I.No. 13.86.3 of PWD SR 2018-19						0.00		
	Schedule B Quantity	Mtr	1	30.00			30.00	408.97	**12269.10**
	Quantity up to 125 %						30.00		
	Quantity Above 125 %						30.00		
26							0.00		
	Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.								
	Schedule B Quantity	MTR	1	40.00			40.00	50.63	**2025.20**
	Quantity up to 125 %						40.00		
	Quantity Above 125 %						40.00		
							0.00		

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o	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm								
	1) 1.50 Sq mm								
	Schedule B Quantity	Mtr	1	70.00			70.00	20.76	**1453.20**
	Quantity up to 125 %						70.00		
	Quantity Above 125 %						70.00		
	2) 2.5 Sq mm						0.00		
	Schedule B Quantity	Mtr	1	50.00			50.00	32.40	**1620.00**
	Quantity up to 125 %						50.00		
	Quantity Above 125 %						50.00		
	3) 4.0 Sq mm						0.00		
	Schedule B Quantity	Mtr	1	20.00			20.00	45.56	**911.20**
	Quantity up to 125 %						20.00		
	Quantity Above 125 %						20.00		
	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch **(Page No. 05, Item No.2.2 KPWD SR 2019-20)**						0.00		
	Short Point up to 3.0 Mtr from tapping point to out let via switch box	Points	4				4	162.00	**648.00**
	Schedule B Quantity						4		
	Quantity up to 125 %						4		
	Quantity Above 125 %						0		
1	Medium Point above 3.0 Mtr Up to 6 Mtrfrom tapping point to out let via switch box	Points	2				2	253.13	**506.26**
	Schedule B Quantity						2		
	Quantity up to 125 %						2		
	Quantity Above 125 %						0		
2	Long Point Above 6.0 Mtr Up to 10 Mtr from tapping point to out let via switch box	Points	1				1	379.69	**379.69**
	Schedule B Quantity						1		
	Quantity up to 125 %						1		
	Quantity Above 125 %						0		
33	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete (1.6.5) 4"x4"x3" (101x101x76mm)								
	1-3 way	Nos	3				3	96.19	**288.57**
	Schedule B Quantity						3		
	Quantity up to 125 %						3		
	Quantity Above 125 %						0		
34	16-18 way						2	182.25	**364.50**
	Schedule B Quantity						2		
	Quantity up to 125 %						2		
	Quantity Above 125 %						0		
35	Supplying and fixing superior quality modular switch mounting polycorbonate plate with necessary supporting back plate with required nos of machine screws bolts nuts, etc complete on the existing metal/PVC box (P-9, I-3.5 OF ElectricalPWD SR 2019-20								
		Nos					3	111.38	**334.14**
	Schedule B Quantity						3		
	Quantity up to 125 %						3		
	Quantity Above 125 %						0		
36	16-18 Module								
		Nos					2	273.38	**546.76**
	Schedule B Quantity						2		
	Quantity up to 125 %						2		
	Quantity Above 125 %						0		

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lo	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Supplying and fixing modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 6Amps one way switch P-9, I-3.5 Of electrical SR PWD 2019-20 6 Amps one way switch I 3.6.1								
	Schedule B Quantity	Each					2	70.88	141.76
	Quantity up to 125 %						2		
	Quantity Above 125 %						2		
3	16 Amps 3 way socket I-3.6.3						0		
	Schedule B Quantity	Each					2		
	Quantity up to 125 %						2	106.31	212.62
	Quantity Above 125 %						2		
9	16 Amps one way switch only I-3.6.8						0		
	Schedule B Quantity	Each					2	116.44	232.88
	Quantity up to 125 %						2		
	Quantity Above 125 %						2		
0	6/16 Amps universel socket I-3.6.11						0		
	Schedule B Quantity	Each					3	164.03	492.09
	Quantity up to 125 %						3		
	Quantity Above 125 %						3		
1	1000-1200 watts Dimmer I-3.6.7						0		
	Schedule B Quantity	Each					6	556.88	3341.28
	Quantity up to 125 %						6		
	Quantity Above 125 %						6		
2	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C Type curve indicator ON/OFF ,energy cross-3 with short circuit breaking capacity of 10 K and complete wiring as required conforming to IEC 60898 6-32 Amps DP (P-27,I-5.17 of electrical PWD SR 2019-20)						0		
	Schedule B Quantity	Each					2	920.36	1840.72
	Quantity up to 125 %						2		
	Quantity Above 125 %						2		
5	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm alround with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. (Page No. 17 Item No. 6.1) Electrical PWD SR 2019-20						0		
	Schedule B Quantity	Nos					2	3037.20	6074.40
	Quantity up to 125 %						2		
	Quantity Above 125 %						2		
	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers, 16 Amps (p-24,I-5.7.1,Electrical PWD SR 2019-20)						0		
	Schedule B Quantity	Nos					1	118.46	118.46
	Quantity up to 125 %						1		
	Quantity Above 125 %						1		
	Supplying and fixing retrofit PL-LED lamp.....W LED Linear source with cct 6500 degree K ,CRI >70% Effiency >80 lumen per watt life >25000 burning hours and complaiance to IS 10322 /IEC 60598 ,LM 79 &LM 80 .The LED are driven by HF electronic driver integrated in the system with PF >0.95,Power should < 5% of lamp waltage short circuit and open circuit protection to be integrated in the circuit THD less than 20 % life as per LM 79 The operating input voltage should be between 130 to 275 volts Tested by NABL/CPBI accredited laboratory with 2 years warranty against manufacturing defect working under standard electrical, 18-20 Watts (P-79, I-12.2,PWD Electrical SR 2019-20)						0		
	Schedule B Quantity	Nos					5	430.31	2151.55
	Quantity up to 125 %						5		
							5		

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No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Quantity Above 125 %						0		
	Fixing all types and all capacities of flourescent /false ceiling /spot lighting/CFL/LED fittings indoor on the wall/ceiling/rafters/girders/using 23/0.0076" twin twisted PVC insulated wires required no of round blocks and clamps on wall/ceiling/Rafter/Girders (P -79,I-14.7.1 PWD Electrical SR 2019-20)								
		Nos					5	111.38	556.90
	Schedule B Quantity						5		
	Quantity up to 125 %						5		
	Quantity Above 125 %						0		
	EIRL ITEMS								
	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.26.2, PWD SR 2018-19**								
	Long wall		2	4.18		3.50	29.26		
	Short Wall		2	3.50		3.50	24.50		
	For sump		2	2.80		2.00	11.20		
			2	1.80		2.00	7.20		
	Deduct openings RSD		-1	1.80		3.00	-5.40		
	Window		-1	1.00		1.20	-1.20		
	Lintel		-2	4.18		0.15	-1.25		
			-1	3.50		0.15	-0.53		
	Roof Beam		-2	4.18		0.30	-2.51		
			-2	3.50		0.30	-2.10		
							59.17	979.56	**57963.50**
	Basic Rate	907.00							
	Area Weightage @ 8%	72.56							
	Total	**979.56**							
	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification .								
	For Ceiling	Sqm	1	3.88	3.20		**12.42**		
	Sump		1	2.80	1.80		**5.04**		
							17.46	208.44	**3638.53**
	Basic Rate	193.00							
	Area Weightage @ 8%	15.44							
	Total	**208.44**							
	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns.. (Page No. 31, item No. 7.10.1)								
		Sqm	1	1.00		1.20	**1.20**	4607.28	**5528.74**
	Basic Rate =	4266.00							
	Area Weightage @8%=	341.28							
	Total Rate =	4607.28							
	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12. (P.No. 32, I.No. 7.9 of PWD SR 2018-19)(Page No. 31, item No. 7.9)								
		Kgs	1	1.00		1.20	**1.20**		
	Note 21 kg/Sqm 21x1.20=25.20 kgs						**25.20**	102.60	**2585.52**
	Basic Rate =	95.00							
	Area Weightage @8%=	7.60							

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No	Description of item	Unit	No	L	B	D	Qty		unt
	Total Rate =	102.60							
L-	Providing and fixing Special make glazed Vitrified tiles (Granomite finis) of approved make, quality and colour of sized 6000x600x10mm thick fixed on existing flooring wit ha special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete and as per the directions of the Engineer-in-charge of the work								
	For FLOOR								
	For Steps	Sqm	1	3.88	3.20		12.42		
	Rise		2	3.50	0.30		2.10		
			2	3.50	0.15		1.05		
							15.57	1188.00	**18492.41**
	Basic Rate =	1100.00							
	Area Weightage @8%=	88.00							
	Total Rate =	1188.00							
RL-	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification .P-116, I-15.15 PWD SR 2018-19								
	In Side	Sqm	2	3.88		3.00	**23.28**		
	Deductions		2	3.20		3.00	**19.20**		
	RSD		-1	1.80		2.80	**-5.04**		
							37.44	298.08	**11160.12**
	Basic Rate =	276.00							
	Area Weightage @8%=	22.08							
	Total Rate =	298.08							
RL- 7	Providing and **applying two coats with oil bound washable distemper** of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.								
	Inside and Ceiling	Sqm		37.44+17.46			**54.90**	90.72	**4980.53**
	Basic Rate =	84.00							
	Area Weightage @8%=	6.72							
	Total Rate =	90.72							
RL- 8	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer.								
		Sqm							
	Basic Rate	84.00					**47.16**	90.72	**4278.36**
	Area Weightage @ 8%	6.72							
	Total	**90.72**							
RL- 8	Providing and installing at site of work PVC pipes including cost of pipes and specials and labour including lowering in to trenches laying true to line level and perfect linking at joints leak proof including jointing of approved type with all labour charges all lift charges handling charges including encasing the pipe around to adepth not less than 15 cms with gravel or selected earth available from the excavation etc complete PVC Pipes of 6.0 kg/cm2 63 mm outer dia Item No;10.01.2 Page No; 76 RWS SR 2019-20)								
		Mtr	1	200.00			**200.00**	155.00	**31000.00**
							Total Construction Cost		**1083586.87**

Sanctioned Tender Amount RS - 1084639.45

Modified Estimate Cost Rs 1083586.87

Savings Rs 933.82

Assistant Engineer
Ward 14
BBMP - Bangalore

Executive Engineer
Dasarahalli
BBMP - Bangalore

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